

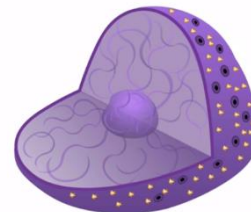
Name: _____

Date: _____

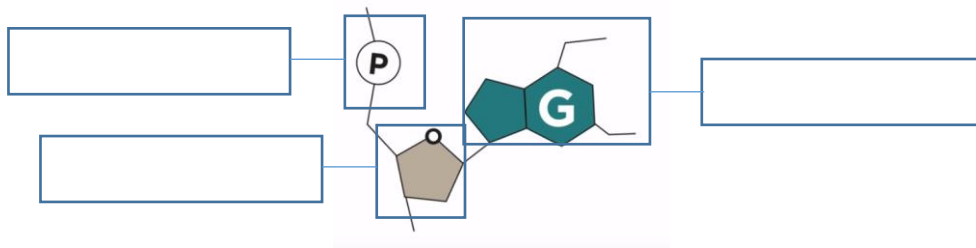
DNA Structure - OL

Watch the Video: DNA Structure by Teacher's Pet. As you watch answer the questions below. Stop or pause the video if necessary. <https://www.youtube.com/watch?v=C1CRtkWwu0> or Google: [Teachers Pet DNA Structure Function](#)

1. What codes for the proteins made in a cell?
a. Ribosome b. Cell membrane c. DNA d. Nucleus
2. Where is DNA found?
a. Ribosome b. Cell membrane c. DNA d. Nucleus

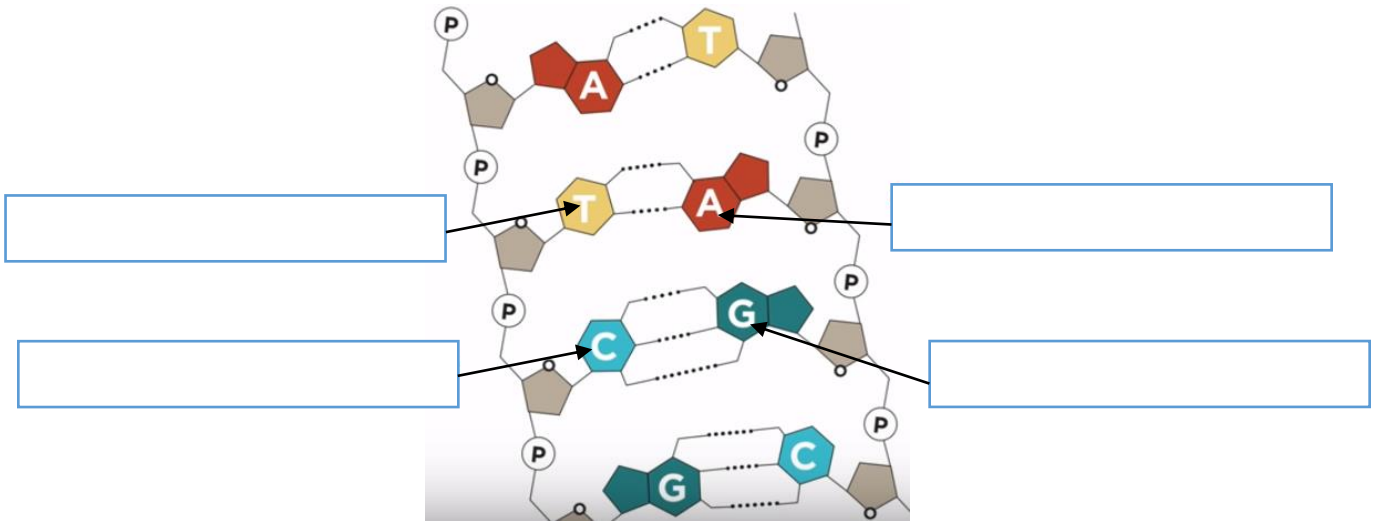


3. What are the monomers of DNA called?
a. amino acids b. nucleotides c. nitrogen bases d. phosphates
4. In the nucleotide below, name the 3 parts.



5. What is the name of the sugar in DNA?
a. Glucose b. Nitrogen c. Deoxyribose d. Ribose

6. Name the bases in the diagram below:



Base A always pairs with base ____

Base T always pairs with base ____

Base C always pairs with base ____

Base G always pairs with base ____

7. What is this twisted shape of DNA called?

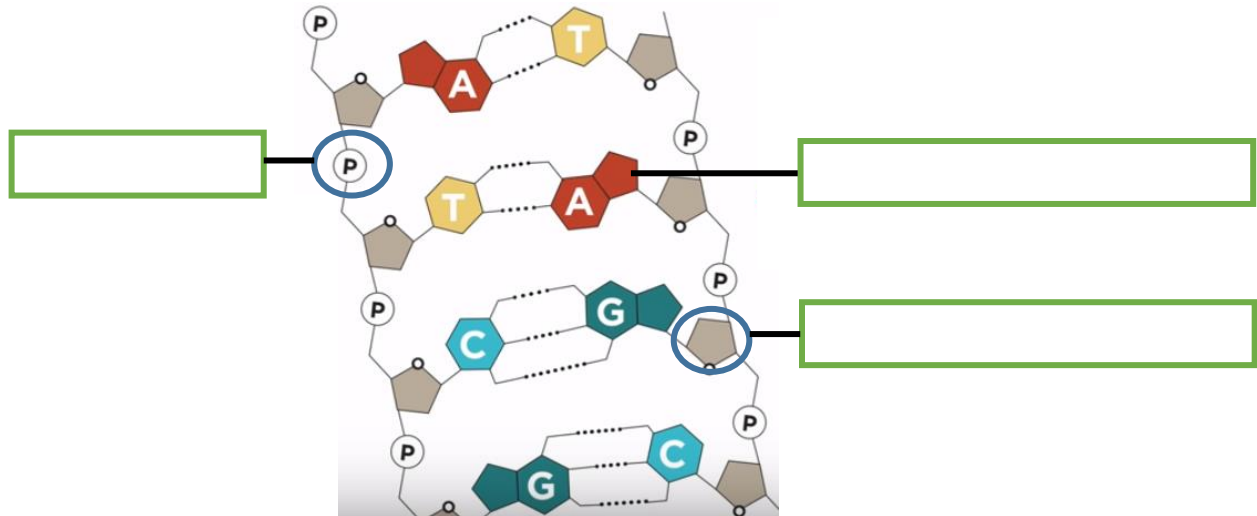
a. Twisted Ladder

b. Double DNA

c. Double Helix



8. Label the DNA below.



9. What are the alternating molecules on the DNA backbone?

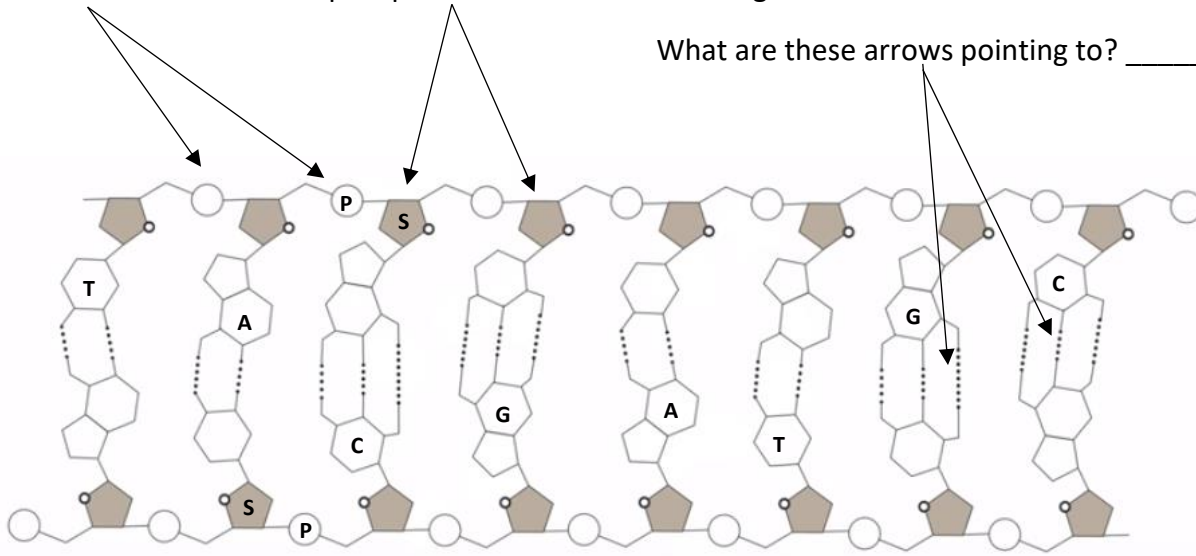
a. Sugar and Phosphate

b. Phosphate and Nitrogen base

c. Sugar and Phosphate

10. Write a P in all the phosphates and an S in all the sugars in the DNA structure below.

What are these arrows pointing to? _____



11. Fill in the matching bases (A, T, C & G) in the DNA structure above.

12. What structures do the Hydrogen bonds hold together?

- a. Sugars b. Nitrogen bases c. Phosphates d. Nucleotides

What did you learn?

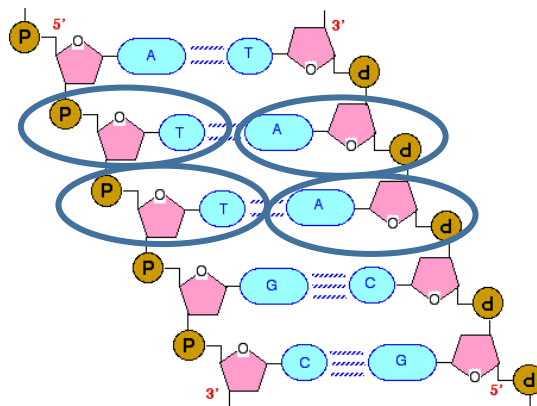
13. How does DNA compare in all living things?

- a. Same components (parts) of DNA, different order of nucleotide bases
- b. Different sugars and phosphates, same order of bases
- c. DNA components (parts) and order is exactly the same in all living things
- d. DNA differs in type of sugar in all living things.

14. Fill in the missing DNA bases below:

A T C C G G T C A A C A G

15. What is the name of the structures that are circled below? _____



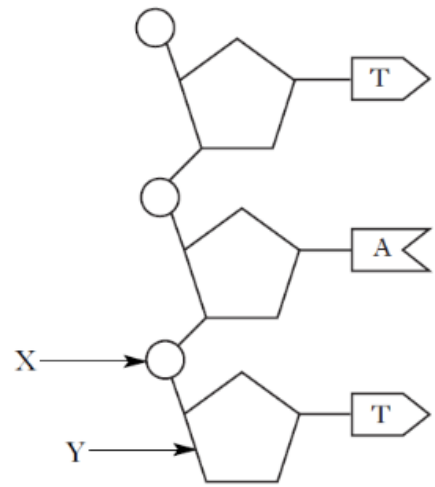
16. What is structure "X" in the diagram to the right?

- a. Phosphate
- b. Sugar
- c. Nitrogen base
- d. Nucleotide

17. Circle the part of the DNA that carries the code for our traits.

18. What is structure "Y" in the diagram to the right?

- a. Phosphate
- b. Sugar
- c. Nitrogen base
- d. Nucleotide



19. What is structure "X" in the diagram to the right?

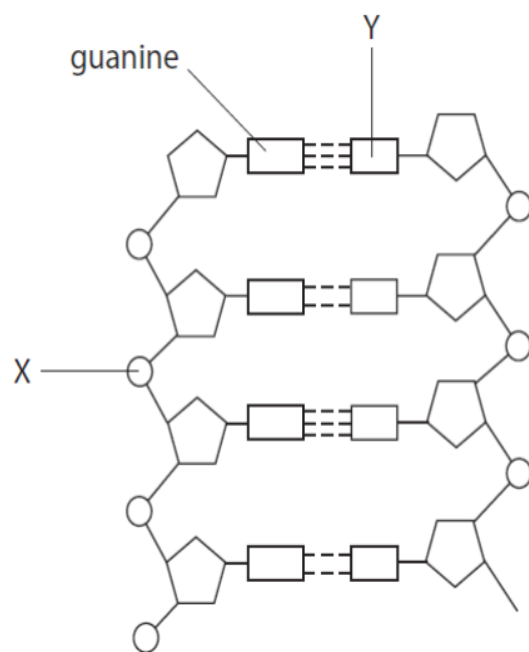
- a. Phosphate
- b. Sugar
- c. Nitrogen base
- d. Nucleotide

20. What is structure "Y" in the diagram to the right?

- a. Phosphate
- b. Sugar
- c. Nitrogen base
- d. Nucleotide

21. Which base does "Y" have to be?

- a. T
- b. A
- c. C
- d. G

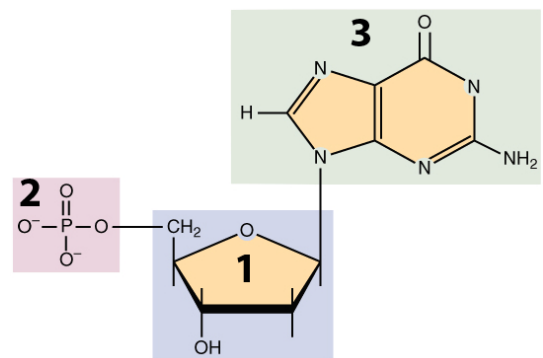


22. Which part of the DNA carries the code for all organisms traits?

- a. Phosphates
- b. Sugars
- c. Nucleotide bases
- d. Hydrogen bonds

23. Which answer below is correct for this structure?

- a. 1 – sugar, 2 – phosphate group, 3 – nitrogen base
- b. 1 – phosphate group, 2 – sugar, 3 – nitrogen base
- c. 1 – sugar, 2 – nitrogen base, 3 – phosphate group
- d. 1 – nitrogen base, 2 – phosphate group, 3 – sugar



24. Why can DNA be taken out of one organism and put into another species of organism and still work?
